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*Title*      **Estimation of Longitudinal Moment Derivatives of  
Missile Configuration using Semi-free Flying Technique**

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**Abstract**      A semi-free dynamic flying test technique has been used to estimate the pitching moment derivatives of a Missile model. Wind tunnel tests were carried out on a 1:8 scale model of PJ08 Missile Configuration. The pitching moment derivatives were estimated from the angular motion responses of the model to doublet input using MLE method. The results of tests on Configuration 1 for three CG positions are detailed.